

Title (en)
Polysiloxanes with SiOC-bounded (meth)acrylic acid ester groups, process for their preparation and their use as irradiation-curable release coating

Title (de)
Polysiloxane mit über SiOC-Gruppen gebundenen (Meth)acrylsäureestergruppen, Verfahren zu deren Herstellung sowie deren Verwendung als strahlenhärtbare abhäsive Beschichtung

Title (fr)
Polysiloxanes ayant des groupes ester (méth)acrylique liés par SiOC, procédé pour leur préparation et leur application comme couche antiadhérente, durcissable par irradiation.

Publication
EP 1544232 B1 20100303 (DE)

Application
EP 04028791 A 20041204

Priority
DE 10359764 A 20031219

Abstract (en)
[origin: EP1544232A1] Organopolysiloxanes with (meth)acryloyloxyalkoxy groups attached to silicon atoms in the chain and possibly also at the ends of the chain. Organopolysiloxanes of formula (I) with (meth)acrylate ester-containing groups in the chain and possibly also at the ends, in which R 1>optionally unsaturated 1-20C alkyl, aryl, alkaryl or aralkyl; R 2>R 1> or R 3>; R 3>mono- or poly-(meth)acrylated mono- and/or poly-alkoxy groups, or a mixture thereof with other alkoxy groups derived from optionally unsaturated aromatic or aliphatic-aromatic poly-alcohols, polyether mono- or poly-alcohols, polyester mono- or poly-alcohols, aminoalcohols (especially N-alkyl-, arylamino-ethylene-oxide- or -propylene-oxide-alcohols, and/or N-alkyl- or arylamino-alcohols), in a ratio such that (I) contains at least one (meth)acrylated alkoxy residue; a : 0-1000; b : 0-5; c : 1-200; d : 0-1000 . Independent claims are also included for (1) a method for the production of (I) by reacting compounds of formula (II) with (meth)acrylated alcohols corresponding to R 3> (to replace the SiH groups with alcoholate groups), using Lewis acid catalysts or catalysts containing carboxylic acids or their salts (2) curable non-stick coating materials containing (I) (3) non-stick coatings made by hardening these materials. R 4>as for R 1>; R 5>H or R 4>; R 6>H; e, h : 0-1000; f : 0-5; g : 0-200 . [Image] [Image].

IPC 8 full level
C08G 77/38 (2006.01); **C08G 77/08** (2006.01); **C09D 183/06** (2006.01)

CPC (source: EP US)
C08G 77/08 (2013.01 - EP US); **C08G 77/38** (2013.01 - EP US); **C09D 183/06** (2013.01 - EP US); **Y10T 428/31663** (2015.04 - EP US)

Cited by
EP2594396A1; EP1595909A1; CN114075391A; JP2022549708A; KR20180044414A; EP2067811A1; AT509428A3; AT509428B1; WO2017005992A1; WO2017036743A1; WO2021058263A1; DE102011086366A1; WO2022148932A1; US8653214B2; DE102015216951A1; US10329313B2

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DOCDB simple family (application)
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